

FIGURE 1

Information Signal

12

Symbol Generating

14

Symbol Sequence Generating

10

Symbol Encoding

16

Acoustic Masking Effect

18

Evaluation/Adjustment

20

Encoded Audio Signal

21
Audio Signal

Code Inclusion

Encoded Audio Signal

FIG. 2

INFORMATION SIGNAL	SYMBOL
COPYRIGHTED WORK	S_1
AUTHOR	S_2
BROADCASTING STATION	S_3
DATE	S_4

FIG. 3A



FIG. 3B

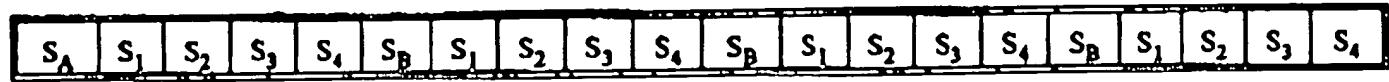


FIG. 3C

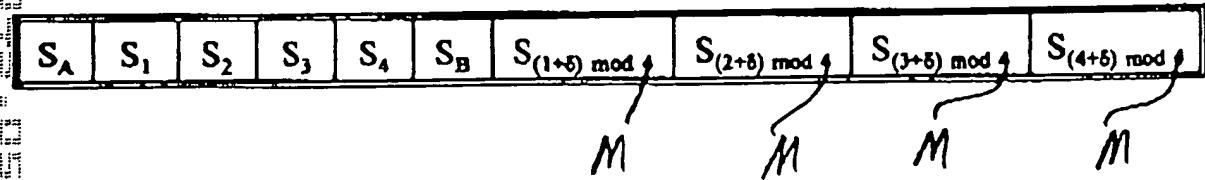
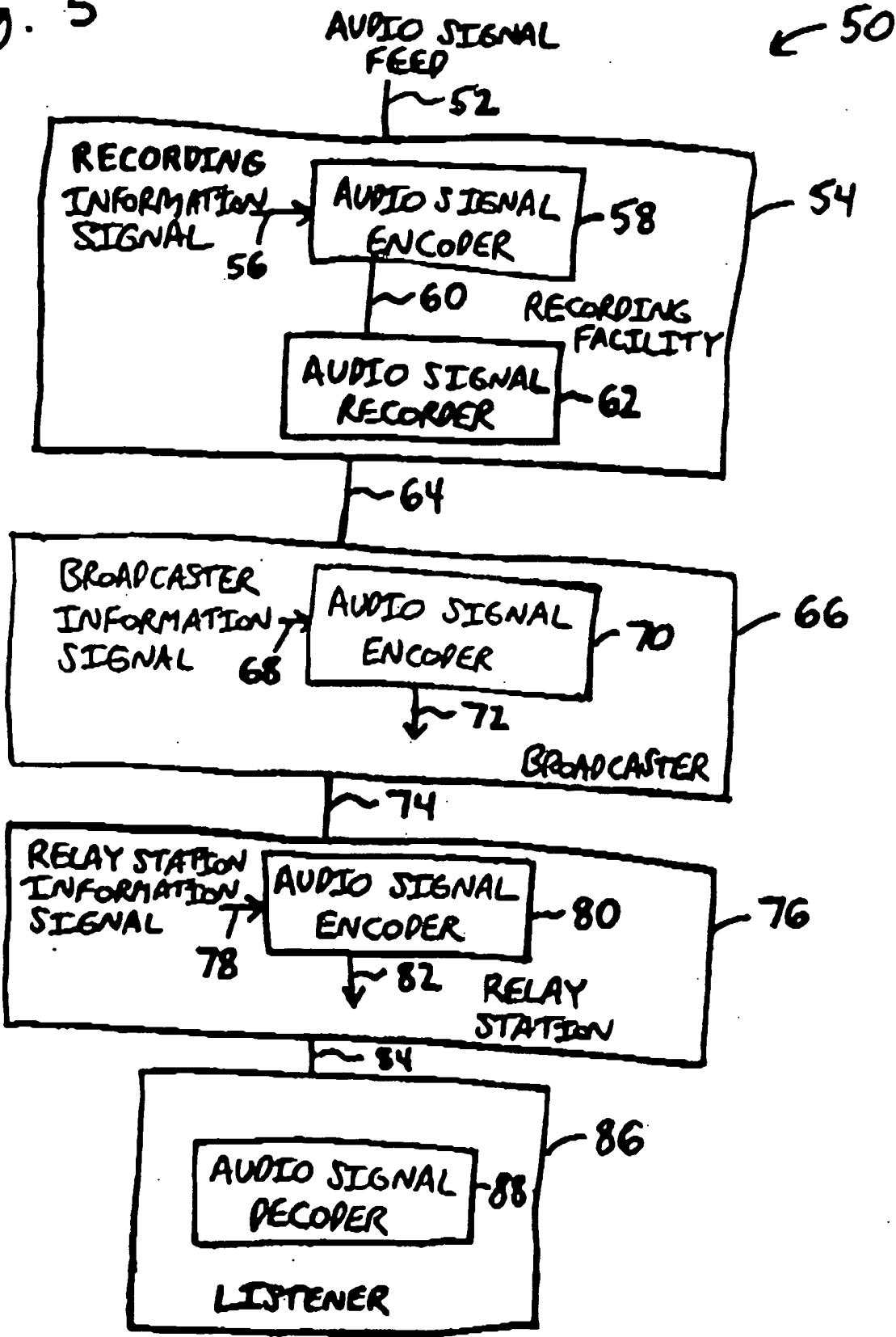


FIG. 4

		SYMBOL									
		S_A	S_B	S_1	S_2	S_3	S_4			S_{N-1}	S_N
1	f_{1A}	f_{1B}	f_{11}	f_{12}	f_{13}	f_{14}	\dots	\dots	$f_{1[N+1]}$	f_{1N}	
2	f_{2A}	f_{2B}	f_{21}	f_{22}	f_{23}	f_{24}	\dots	\dots	$f_{2[N+1]}$	f_{2N}	
3	f_{3A}	f_{3B}	f_{31}	f_{32}	f_{33}	f_{34}	\dots	\dots	$f_{3[N+1]}$	f_{3N}	
4	f_{4A}	f_{4B}	f_{41}	f_{42}	f_{43}	f_{44}	\dots	\dots	$f_{4[N+1]}$	f_{4N}	
FREQUENCY COMPONENT		\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots	\dots
M-1	$f_{[M-1]A}$	$f_{[M-1]B}$	$f_{[M-1]1}$	$f_{[M-1]2}$	$f_{[M-1]3}$	$f_{[M-1]4}$	\dots	\dots	$f_{[M-1][N+1]}$	$f_{[M-1]N}$	
M	f_{MA}	f_{MB}	f_{m1}	f_{m2}	f_{m3}	f_{m4}	\dots	\dots	$f_{m[N+1]}$	f_{mN}	

Fig. 5



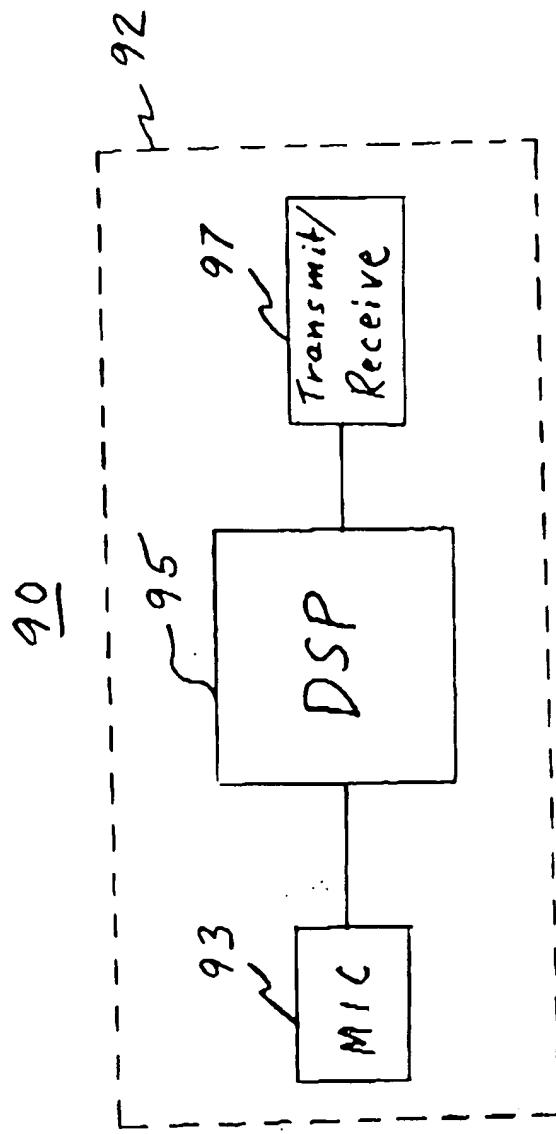


FIGURE 6

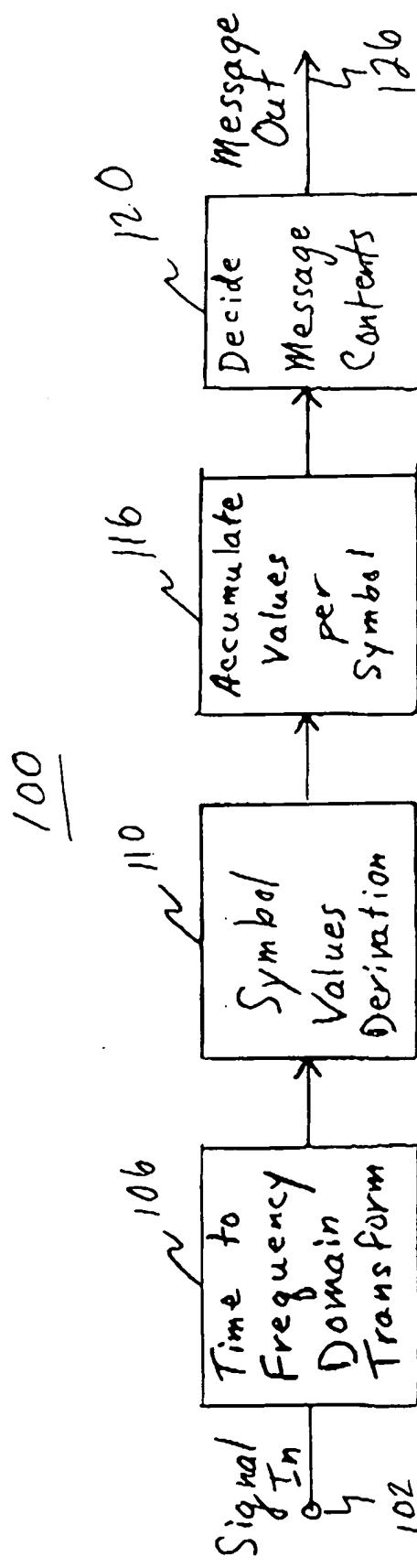
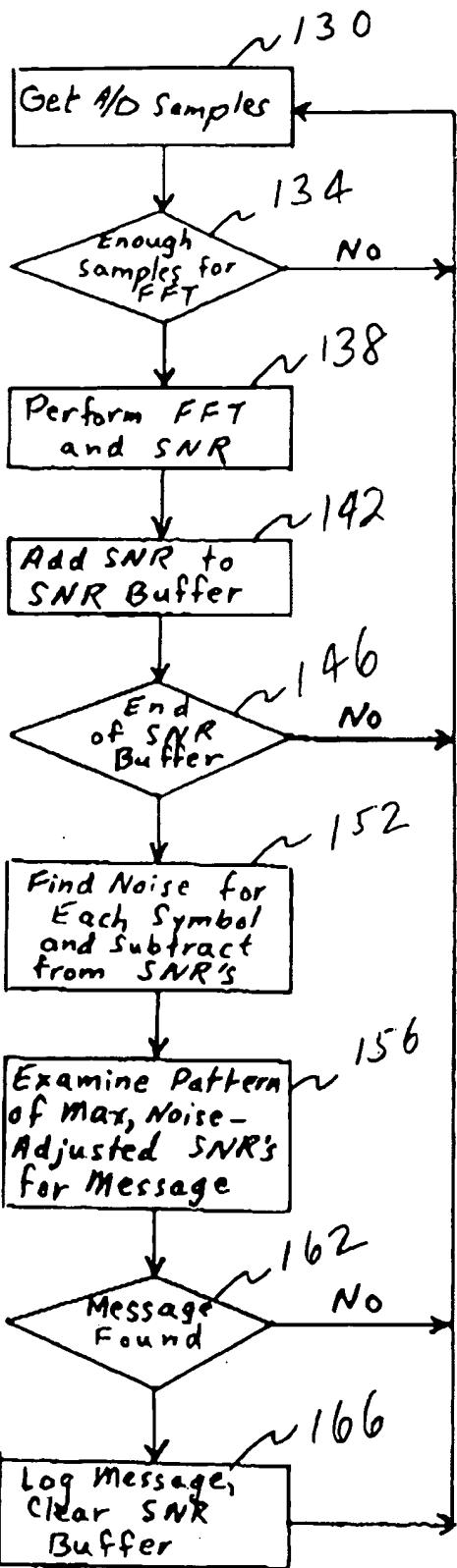


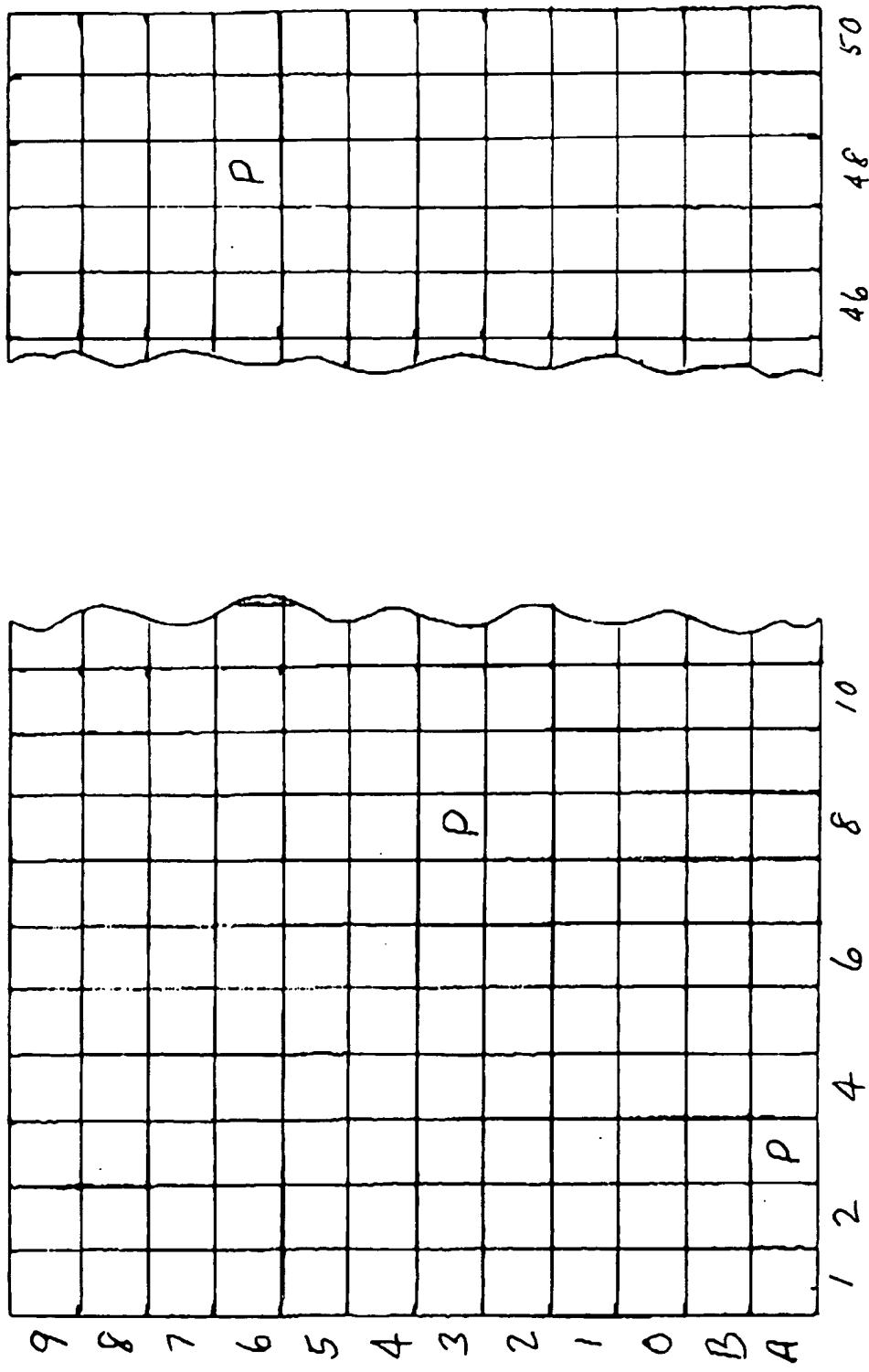
FIGURE 7

FIGURE 8

00000000000000000000000000000000



Symbol



Time in FFT's \rightarrow

FIGURE 9

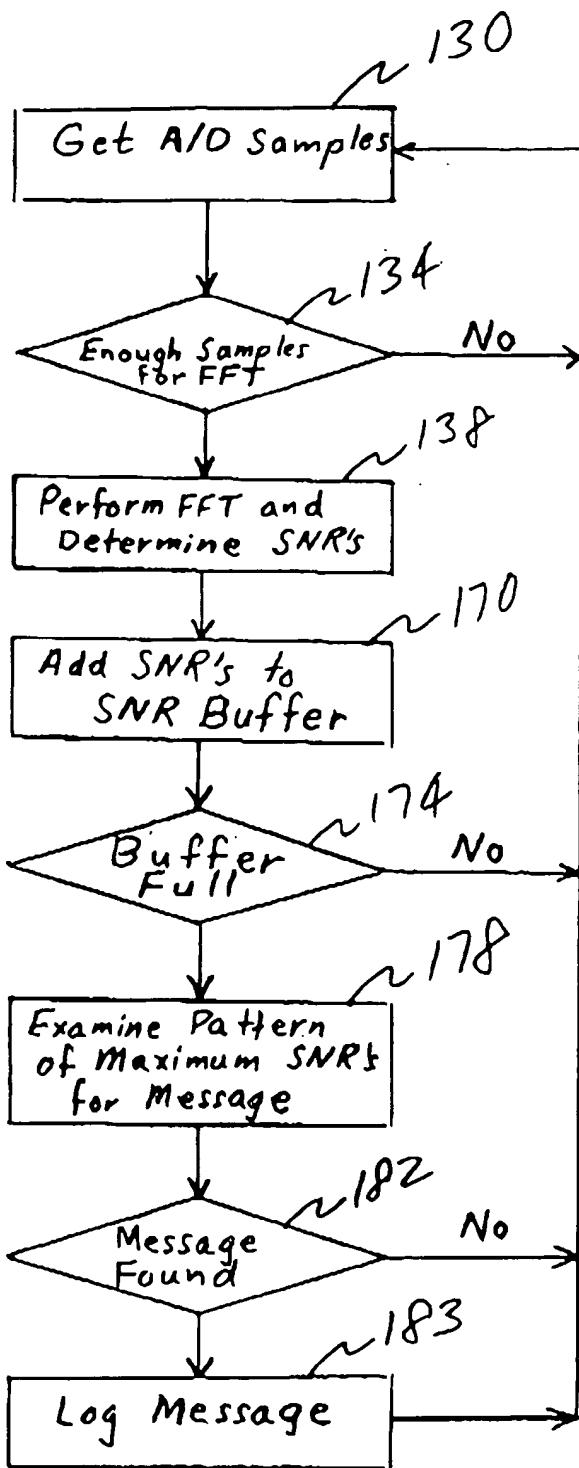


FIGURE 10